Contents to volume 281

Review Letters

Strategies for expression of foreign genes in plants: Potential use of engineered viruses* (FEBS 09562) *R.L. Joshi, V. Joshi* 1

DNA damage by oxygen-derived species: Its mechanism and measurement in mammalian systems (FEBS 09577) *B. Halliwell, O.I. Aruoma* 9

Research Letters

Histidine decarboxylase gene expression in rat fundus is regulated by gastrin (FEBS 09539) *R. Dimaline, A.K. Sandvik* 20

Rabbit skeletal muscle myosin: Unfolded carboxyl-terminus and its role in molecular assembly (FEBS 09540) *K. Maeda, A. Rösch, Y. Maéda, H.R. Kalbitzer, A. Wittinghofer* 23

AMPA and kainate-operated channels reconstituted in artificial bilayers (FEBS 09541) *A. Ambrosini, E.A. Barnard, G. Prestipino* 27

Sodium dependent inositol transport in HL60 cells is not related to Na^+/K^+ ATPase activity (FEBS 09542) *M.A. Baxter, G. Grafton, C.M. Bunce, M.C. Sheppard, G. Brown* 30

Complete ^1H and ^{13}C assignment of Lys and Leu sidechains of staphylococcal nuclease using HCCH-COSY and HCCH-TOCSY 3D NMR spectroscopy (FEBS 09543) *D.M. Baldisseri, J.G. Pelton, S.W. Sparks, D.A. Torchia* 33

Cellular incorporation and localization of fluorescent derivatives of gangliosides, cerebroside and sphingomyelin (FEBS 09545) *R.T.C. Huang, E. Dietsch* 39

Rapid aggregation and tight junction formation in single cell suspensions of tumor cells after very low dose trypsin treatment (FEBS 09547) *W. Kemmner, K. Zaar* 43

Structural and functional modifications induced by diamide on the F_0 sector of the mammalian ATP synthase (FEBS 09548) *F. Dabbeni-Sala, G. Lippe, M.C. Sorgato* 47

Troponin I and caldesmon restrict alterations in actin structure occurring on binding of myosin subfragment 1 (FEBS 09549) *E. Nowak, Yu.S. Borovikov, M.I. Khoroshev, R. Dabrowska* 51

Isolation and characterization of methylated sugars from the tube of the hydrothermal vent tubiculous annelid worm *Alvinella pompejana* (FEBS 09550) *F. Talmont, B. Fournet* 55

Pyruvate-formate-lyase-deactivase and acetyl-CoA reductase activities of *Escherichia coli* reside on a polymeric protein particle encoded by *adhE* (FEBS 09551) *D. Kessler, I. Leibrecht, J. Knappe* 59

The chloroplast gene for ribosomal protein CL23 is functional in tobacco (FEBS 09554) *F. Yokoi, M. Tanaka, T. Wakasugi, M. Sugiura* 64

Proteolytic activity of plum pox virus–tobacco etch virus chimeric NI_a proteases (FEBS 09552) *J.A. García, S. Laín* 67

Dual regulation of atrial natriuretic factor-dependent guanylate cyclase activity by ATP (FEBS 09553) *R.B. Marala, A. Sitaramayya, R.K. Sharma* 73

Comparison of the HIV-1 and HIV-2 proteinases using oligopeptide substrates representing cleavage sites in Gag and Gag-Pol polyproteins (FEBS 09557) *J. Tözsér, I. Bláha, T.D. Copeland, E.M. Wondrak, S. Oroszlan* 77

Chemical modification of the sole histidine residue of smooth muscle caldesmon (FEBS 09556) *A.A. Bonet-Kerrache, M.P. Walsh* 81

Cloning and sequence analysis of brain cDNA encoding a *Xenopus* D_2 dopamine receptor (FEBS 09555) *G.J.M. Martens, H.O.F. Molhuizen, D. Gröneveld, E.W. Roubos* 85

Molecular recognition in the binding of vitamin B_{12} by the cobalamin-specific Intrinsic Factor (FEBS 09560) *E.R. Andrews, J.M. Pratt, K.L. Brown* 90

Nebulin as a giant actin-binding template protein in skeletal muscle sarcomere: Interaction of actin and cloned human nebulin fragments (FEBS 09559) *J.-P. Jin, K. Wang* 93

Electrolyte induced vesiculation of MA_{782} mice mammary adenocarcinoma ascites cells (FEBS 09563) *T. Zheng, F. Shi-guo, L. Shu-sen* 97

D-[^{35}S(U)]Inositol 1,4,5-trisphosphorothioate, a novel radioligand for the inositol 1,4,5-trisphosphate receptor: Complex binding to rat cerebellar membranes (FEBS 09564) *R.A.J. Challiss, S.M. Smith, B.V.L. Potter, S.R. Nahorski* 101

What is the true ATPase activity of contracting myofibrils? (FEBS 09561) *M. Houadjeto, T. Barman, F. Travers* 105

Coenzyme B_{12}-dependent 2-methyleneglutarate mutase from *Clostridium barkeri*: Protection by the substrate from inactivation by light (FEBS 09565) *C. Michel, W. Buckel* 108

5′-Derivatives of oligonucleotides as primers of DNA polymerization catalyzed by AMV reverse transcriptase and Klenow fragment of DNA polymerase 1 (FEBS 09566) *I.A. Lokhova, G.A. Nevinsky, T.S. Godovikova, E.M. Ivanova, A.A. Koshkin, D.S. Sergeev, E.I. Frolova, N.K. Rudenko, V.V. Khomov, V.M. Kavsan, V.F. Zarytova, O.I. Lavrik* 111

Complete nucleotide sequence of the *Mycobacterium leprae* 23 S and 5 S rRNA genes plus flanking regions and their potential in designing diagnostic oligonucleotide probes (FEBS 09567) *W. Liesack, S. Sela, H. Bercovier, C. Pitulle, E. Stackebrandt* 114

Canine hydrophobic surfactant polypeptide SP-C: A lipopeptide with one thioester-linked palmitoyl group (FEBS 09569) *J. Johansson, P. Persson, B. Löwenadler, B. Robertson, H. Jörnvall, T. Curstedt* 119

Interaction of mitochondrial creatine kinase with model membranes: A monolayer study (FEBS 09568) *M. Rojo, R. Hovius, R. Demel, T. Wallimann, H.M. Eppenberger, K. Nicolay* 123

Characterization of neutrophil *b*-type cytochrome in situ by electron paramagnetic resonance spectroscopy (FEBS 09571) *I. Ueno, S. Fujii, H. Ohya-Nishiguchi, T. Iizuka, S. Kanegasaki* 130

Penetration enhancement across a model membrane by liposomally entrapped drugs using *N,N′*-diacylcystine as a bilayer lipid (FEBS 09570) *S. Kamagami, H. Okabe, H. Kainose, M. Kikkawa, Yu. Ishigami* 133

Tyrosine phosphorylation of human urokinase-type plasminogen activator (FEBS 09546) *S. Barlati, F. Paracini, D. Bellotti, G. DePetro* 137

Heparin inhibits A431 cell growth independently of serum and EGF mitogenic signalling (FEBS 09572) *S. Vannucchi, F. Pasquali, V.P. Chiarugi, M. Ruggiero* 141

An organophosphorus compound, Vx, selectively inhibits the rat cardiac Na,K-ATPase α_1 isoform: Biochemical basis of the cardiotoxicity of Vx (FEBS 09574) *P. Robineau, Y. Leclercq, A. Gerbi, I. Berrebi-Bertrand, L.G. Lelievre* 145

Amylin activates glycogen phosphorylase in the isolated soleus muscle of the rat (FEBS 09573) *A.A. Young, D.M. Mott, K. Stone, G.J.S. Cooper* 149

On the functional form of transcortin-recognizing subunit of transcortin membrane receptor (FEBS 09576) *S.A. Krupenko, G.V. Avvakumov, O.A. Strel'chyonok* 152

Ethanol has an acute effect on bile acid biosynthesis in man (FEBS 09578) *M. Axelson, B. Mörk, J. Sjövall* 155

Cloning of a glycine receptor subtype expressed in rat brain and spinal cord during a specific period of neuronal development (FEBS 09579) *H. Akagi, K. Hirai, F. Hishinuma* 160

Published by Elsevier Science Publishers B.V.

Site-specific mutagenesis of human interleukin-6 and its biological activity (FEBS 09580) *C. Nishimura, K. Futatsugi, K. Yasukawa, T. Kishimoto, Y. Arata* 167

Light-induced, long-lived perturbation of the photocycle of bacteriorhodopsin (FEBS 09583) *Z. Tokaji, Z. Dancsházy* 170

Bacteriochlorophyll *c* formation via the C_5 pathway of 5-aminolevulinic acid synthesis in *Chloroflexus aurantiacus* (FEBS 09582) *T. Oh-hama, P.J. Santander, N.J. Stolowich, A.I. Scott* 173

The transthyretin cDNA sequence is normal in transthyretin-derived senile systemic amyloidosis (FEBS 09584) *L. Christmanson, C. Betsholtz, A. Gustavsson, B. Johansson, K. Sletten, P. Westermark* 177

Sequence-specific binding of the N-terminal three-finger fragment of *Xenopus* transcription factor IIIA to the internal control region of a 5S RNA gene (FEBS 09586) *J.H. Christensen, P.K. Hansen, O. Lillelund, H.C. Thøgersen* 181

Involvement of a serine esterase in oxidant-mediated activation of phospholipase A_2 in pulmonary endothelium (FEBS 09585) *S. Chakraborti, J.R. Michael* 185

Stabilization of clathrin coated vesicles by amantadine, tromantadine and other hydrophobic amines (FEBS 09587) *Y. Phonphok, K.S. Rosenthal* 188

Interference with protein binding at AP2 sites by sequence-specific methylation in the late E2A promoter of adenovirus type 2 DNA (FEBS 09588) *R. Hermann, W. Doerfler* 191

Activation of protein kinase C by phorbol esters induces DNA synthesis and protein phosphorylations in glomerular mesangial cells (FEBS 09589) *M. Issandou, J.-M. Darbon* 196

Noradrenergic inhibition and voltage-dependent facilitation of ω-conotoxin-sensitive Ca channels in insulin-secreting RINm5F cells (FEBS 09590) *G. Aicardi, A. Pollo, E. Sher, E. Carbone* 201

Spectroscopic characterization of the copper(I)-thiolate cluster in the DNA-binding domain of yeast ACE1 transcription factor (FEBS 09592) *J.R. Casas-Finet, S. Hu, D. Hamer, R.L. Karpel* 205

Geometrical correlations useful for design of sequence-specific DNA narrow groove binding ligands (FEBS 09591) *A.S. Zasedatelev* 209

Conformation of endothelin in aqueous ethylene glycol determined by ^{1}H-NMR and molecular dynamics simulations (FEBS 09544) *S.R. Krystek, Jr., D.A. Bassolino, J. Novotny, C. Chen, T.M. Marschner, N.H. Andersen* 212

Modification of the stability of phospholipase A2 by charge engineering (FEBS 09558) *R.W. Pickersgill, I.G. Sumner, M.E. Collins, J. Warwicker, B. Perry, K.M. Bhat, P.W. Goodenough* 219

Polypeptide–metal cluster connectivities in Cd(II) GAL4 (FEBS 09581) *P.L. Gadhavi, A.L. Davis, J.F. Povey, J. Keeler, E.D. Laue* 223

Pancreatic secretory trypsin inhibitor (PSTI) isolated from pig intestine: Influence on insulin and somatostatin release (FEBS 09575) *B. Agerberth, C.-G. Östenson, S. Efendic, H. Jörnvall* 227

Ouabain- and Ca^{2+}-sensitive ATPase activity of chimeric Na- and Ca-pump molecules (FEBS 09594) *D.B. Luckie, K.L. Boyd, K. Takeyasu* 231

Role of glycine-82 as a pivot point during the transition from the inactive to the active form of the yeast Ras2 protein (FEBS 09593) *C. Kavounis, A.C. Verrotti, E. De Vendittis, A. Bozopoulos, F. Di Blasi, R. Zahn, J.B. Crechet, A. Parmeggiani, D. Tsernoglou, and O. Fasano.* 235

Contribution of proline-14 to the structure and actions of melittin (FEBS 09597) *C.E. Dempsey, R. Bazzo, T.S. Harvey, I. Syperek, G. Boheim, I.D. Campbell* 240

Phytochromes and bacterial sensor proteins are related by structural and functional homologies: Hypothesis on phytochrome-mediated signal-transduction (FEBS 09595) *H.A.W. Schneider-Poetsch, B. Braun, S. Marx, A. Schaumburg* 245

Control region and gastric specific transcription of the rat H^+,K^+-ATPase α subunit gene (FEBS 09598) *K.-I. Oshiman, K. Motojima, S. Mahmood, A. Shimada, S. Tamura, M. Maeda, M. Futai* 250

The anionic conjugates of bilirubin and bile acids stimulate ATP hydrolysis by *S*-(dinitrophenyl)glutathione ATPase of human erythrocyte (FEBS 09601) *S.S. Singhal, R. Sharma, S. Gupta, H. Ahmad, P. Zimniak, A. Radominska, R. Lester, Y.C. Awasthi* 255

Purification and characterization of a carbohydrate-binding peptide from *Bauhinia purpurea* lectin (FEBS 09596) *K. Yamamoto, Y. Konami, K. Kusui, T. Osawa* 258

Calcium oscillation associated with reduced protein kinase C activities in *ras*-transformed NIH3T3 cells (FEBS 09599) *T. Fu, Y. Sugimoto, T. Oki, S. Murakami, Y. Okano, Y. Nozawa* 263

cAMP-dependent protein kinase activation affects vasopressin V_2-receptor number and internalization in LLC-PK_1 renal epithelial cells (FEBS 09602) *D.A. Jans, B.A. Hemmings* 267

A 53 kDa protein binds to the negative regulatory region of JC virus early promoter (FEBS 09603) *A.K. Sharma, G. Kumar* 272

Site-directed mutagenesis of bovine pancreatic ribonuclease: lysine-41 and aspartate-121 (FEBS 09604) *K. Trautwein, P. Holliger, J. Stackhouse, S.A. Benner* 275

Phosphorylation of the lymphoid cell kinase $p56^{lck}$ is stimulated by micromolar concentrations of Zn^{2+} (FEBS 09605) *J.-J. Pernelle, C. Creuzet, J. Loeb, G. Gacon* 278

Book Reviews and Booklist No. 100 283

Author Index to volume 281 293

Contents to volume 281 297

Announcement 299

Corrigendum 300

Notes to Authors 301